INDEX OF ARTICLES - DECUSCOPE
1971-1972

Volume 10, Number 1 - 1971

Page

Conversational, Two-Dimensional Fitting Program for PDP-9/L 3-5

A PDP-9/L Program to Histogram Data From Four-Word Events 6-7

The LAB-8 as an Instructional Tool 7-8

Modernizing a PDP-7 8-10

Design of a Patchable Interface for On-Line Control Development 10-13

A Slow-Run Option for the PDP-10 14

Equipment Cabinet Front Cover Hangup Solution 15

An Introduction to Vector-8, A New Programming Language 15-20

Programming Notes

- FOCAL Fraction - Decimal Conversion 20
- Modification to DECUS No. 5/8-29 20
- Erase Negative Numbers 21
- FOCAL, Amity 21
- Format-Free Input for FORTRAN 21-22

DECUS Notes 22

Customer Exchange Board 22

DECUS Annual Report - 1970 23-26

Letters 27

Wanted to Buy 27

Programs Available from Author 28-30

Bits and Pieces 30

- Wanted 30-31
- Did You Know? 31
- Maindec Notice 31

Volume 10, Number 2 - 1971

Line Printer to PDP-8 Interface 2-4

Surface Plate Auto-Collimation 4-5

CRIT - A Pedagogical Reactor Multiplication Factor Calculating Code 5-7

Inexpensive Graphic Display for the PDP-8/L 7-8

A Special Fourier Transform Algorithm 9-11

Baton Rouge State Times Describes PDP-8 Computer Program Developments 12-13

A Radiotherapy Dose Distribution Data Acquisition Analysis and Filing System 14-18

Programming Notes

- BIN Loader Patch to Permit Simultaneous Loading and Copying of Tapes 19
- Revision of Binary Loader Digital-8-2-U 19-20
- Patches to PAL III 20

Letters 21-23

DECUS Notes

- PDP-8 Newspaper Users Meeting 24
- DECUS Program Library Note 24
- New LUGS 24

Wanted 24

Bits and Pieces 24

PS/8 Newsletter 25-30

Volume 10, Number 3 - 1971

Low Cost High Speed I/O for the PDP-8 Family 2-5

A Simple Interface for On-Line Data Transfer Between a Laben 4096-Channel Analyzer and a PDP-9 6-9

A Solid-State Light Pen and Computer Interface for the Tektronix 611 Storage Oscilloscope 10-11

Automatic Bootstrap/Program Loader 11-13

Chebyshev Polynomial Approximation by FOCAL . . . 13-14

The Full Utilization of the Small Dedicated Computer. 14-15

Programming Notes

- A Convenient 'Pause' Call in FORTRAN-D 15
- An Interrupt Processor Patch for FOCAL, 1969 on the LINC-8 15
- FOCAL Patch for Sampling the ADC of the LAB-8 16
- File Names 16-17
- Pieces of PI 17
- Random Number Generator for PDP-9 (9/L) . . . 18
- Notes on BCD to Binary Conversion. 18-19
- Decreasing the Execution Time of FOCAL Programs 19
- Matrix Inversion with PAL-D 19-20
- Numerical Integration 20-21

$1.33 Low Tape Indicator 21-22

Letters 22-24

Bits and Pieces 24

The Association for Computing Machinery (ACM) and the Joint User Group (JUG) Releases First Computer Program Directory 25

JUG Program Library Interchange Service 25-26

DECUS Notes 26-27

Volume 10, Number 4 - 1972 Page

CRTPAC - A Flexible High Speed Character Generator and Display Package 2-3

Using the KW12 Real-Time Clock in PDP-12 Psychophysics 3-5

A Punched Paper Tape Generator with Automatic Randomization of User-Defined Punch Sets 5-7

Hardware Notes

- Monostable with CLR Line Simplifies the Time-out of the PDP-11 Unibus 7
- A Slow-Run Option for the PDP-8/L 8
- Interfacing DEC Negative Logic Levels and Emitter Coupled Logic 9
- An Automatic Bootstrap Loader for the PDP-8 . . 9-10

Programming Notes

- Revision of RIM Loader 10
- Converting 2421 BCD Code to 8421 BCD Code 10
- Modification to DIAL-MS Listape Function 10-11
- PDP-11 Programming Note 11
- EXIT: A General Purpose Loader for a DECtape-Oriented PDP-8 11-13

Bits and Pieces 13

Wanted 13

Programs Available from Author 14

Customer Exchange Board 15

Letters to the Editor 15

Volume 10, Number 5 - 1971

A Proposal for a Multifield PDP-8 Timesharing System . 1-3

CIG8 - A Graphics System for Science and Engineering Education 3-6

A Geometric Truncation Function for Fast Fourier Transforms 6-7

BS4421 Controller for PDP-11 8-9

A Reliable Bioelectric Signal Recognizer 9-11

A PDP-8/I Interface for Two Packard Analog-to-Digital Converters and a Multichannel Analyzer . . .11-13

Programming Notes 14

FOCAL Conic-Plotting Routines 14-15

Ansi FORTRAN Standardization Acitivity 15-16

BCD Counter 16

Programs Available from Author 16-17

Letters 17-19

DECUS Notes

- LUG News 20-21

Bits and Pieces 23-24

Wanted Items 24

Volume 11, Number 1 - 1972 Page

Writing Installation - Use Specific Quasi-Languages Using PAL as a Basis. 1

PDP-12/PDP-8/I - CDC 3300 Computer Coupler . . . 3

Program for Fourier Transformation of Data Obtained by An Analog to Digital Converter 5

Calculation of Auto and Cross Correlations of Discrete Time Series on Small Computers by the Veltman Method . 6

A Pseudorandom Number Generator for the PDP-15 . . . 7

Teleprinter Edition of Closed Spatial Curves 8

AF01 Instruction Clarifications 10

Programming Notes 10

Wanted 13

News from DEC 14

Letters. 16

Bits and Pieces 17

Programs Available from Author 17

DECUS Notes 18

Volume 11, Number 2 - 1972

Calcomp Compatible 'FASPLOT' Subroutines for the PDP-9/15 2-4

Efficient Paper Tape Handler 4

Circuit for Parallel Operation of TTY and Remote Device 6

One of the World's Largest PDP-8 Users in Australia . . 6

RTP - A Simple Data Preparation Package for Time-Sharing Systems 8

Improved Data In- and Output Using PDP-11 Basic . . . 12

A Pseudo-Random Number Generator for PDP-11 14

FOCAL POINTS

- Extensions to FOCAL 16-17
- FOCAL 1969 Octyl Loader 18
- Four-User Overlay - FOCAL Amity 18-20
- An Individual Tablet Assay Program for a Mini-Computer 20
- Letter Regarding FOCAL 20
- Patch to FOCAL 1968 21
- Evaluating Fractional Exponents 21
- A FOCAL Patch for TSS-8 Systems with Display Terminals 21
- Letter Regarding FNEW 21-22
- FOCAL: Has It Gone From a Mathematics-Oriented Language to a Hardware-Oriented Language? 23
- Patch to FOCAL 69 23
- An Improved Random Number Generator for FOCAL 9/15 24

Volume 11, No. 2 - 1972 (Continued) Page

Letters 25-27
Wanted Items 27
DECUS Notes 27-28
Bits and Pieces 28-29
Programming Notes
Some Modifications to Scope Editor for AX08, DECUS No. 8-255 30
LINC-8 Conversion Routine 30
PAL-11A Card Reader Assembler Stack Error 30
Passing Character Strings From FORTRAN to MACRO 31
Pass 3 Output Format Patch for MACRO-8 32
Patch for Binary Loader 33
Programs Available From Author 33-34

Volume 11, Number 3 - 1972

The SIMPLE: Scope Interpreter for Memory Perception and Learning Experiments 2-7
Modification of the PDP-12 Signal Averager for Fast Frequency Neuroelectric Signals 7-8
A PDP-8 Floating-Point Software Package Simulator Using A FPP-12 Floating-Point Processor 9-11
Programming Notes
PDP-11 Binary Loader 11
Program to Reconstruct Time Function From Fourier Harmonics of a Waveform 11
Eight-Point Quadratic Smooth with FPP-12 12
Modifications to TIC 5/8, DECUS No. 8-173 for a PDP-8 with AX08 A/D-Converter 12
Extending MAGSPY for the RF08 Disk 13
PDP-11 Programming Note 13-15
Saving Time in Display Loops 16
LAB-8 Advanced Averager Program (Rotterdam Version) 17
Sense Switch Program 18
A Selfstarting PS8 Loader for the PDP-8/E with TD8-E DECtape 18-19
Letters 19-22
Hardware Notes 22
FOCAL Points
An On-Line FOCAL-12 Program for Auto Analyzers 23
DATAN: A Data Analysis System Written in FOCAL-12 24
Programs Available from Authors 25-26
Bits and Pieces 26
Reprint Reference Column 27
DECUS Notes 27
Local User Group News 27
DECUS Annual Report 28-30

Volume 11, Number 4 - 1972

A General Purpose System for Interfacing A PDP-8 Computer to Pulse Counting Experiment 1-5
The Fast Fourier Transform and its Use 6-14
Frequency Transformation Program 15-17
A Function Generator for Digital Analog Simulation with FOCAL 17-22
Computer Assisted Measurement of Motor Unit Potential Parameters in Human Electromyography 23
FOCAL Points
An Off-line FOCAL-12 Program for Auto-Analyzers by TWX 23-26
ECHO Off/On 26
A Package of Interactive Mathematical Routines . 27
FOCAL-RT 28
FOCAL and High Speed Punch 28
DECUS Library Note 29
Specifying File Locations at Run-Time for FOCAL-12 29-31
Programming Notes
Calling Special BASIC Routines 31
Cassette Utility Program and PALC 32
Patches for DOS-15 32
Cycle Time Test for the PDP-15 32
ASCII to EBCDIC and Vice Versa 33-34
List Command for PDP-9/15 Line Editor 35
Linking Programs Assembled with PAL 11A 35
Sense Switch Program 36
More on the Sense Switch Program 36
Printer Output with FORTRAN-D 36
Letters 36-40
Programs Available From Author 41-42
Bits and Pieces 42-43

Volume 11, Number 5 - 1972

Some Uses of the PS-8 Assembler to Automate Disk File Catalog Modification 1
A Simple Drum Mass-Memory System for the PDP-15 . 2
Protection of the PDP-15 DOS - Software Against Fraudulent Use 5

Volume 11, Number 5 - 1972 Page

Economical Point Plotter Interface for a PDP-12 Computer 6

Wanted 8

Dual Channel Digital Output Package for Basic R/T; Application to An Analog X-Y Plotter 9

How to Select Your "Ideal" PDP-8 Debugging Program . 11

Controlling a Tektronix 601 Storage Monitor From the VC-8E 16

Priority Interrupts for PS/8 FORTRAN 16

A Hardware Switch Between Teletype and Display Terminal As System-Control Device 21

Hardware Notes 23

FOCAL Points 23

Reprint Reference Column 23

Programs Available from Authors 24

Programming Notes

A New Text Routine for the PDP-8 27

PDP-15 FORTRAN Callable Date and Time Routines for DOS Users 28

FFT11C(DECUS No. 11-16) 29

Fast Square Root for PDP-9/15 29

DECUS Program Library Notes 30

Letters 31

Bits and Pieces 34

Special Interest Group News 39